## **CLAIMS**

1. An inclusion complex of a lignan or lignan ester with a cyclodextrin, wherein the lignan or lignan ester is a compound of formula (I)

or formula (II)

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(II)

wherein L is a lignan skeleton, which optionally includes a bridge forming a ring with one of the phenyl groups in the formulae;  $R_1$  is H or methoxy, and R is H, methyl, R'-CO- or R'-SO<sub>2</sub>-, wherein

R' is a  $C_1$  to  $C_{22}$  alkyl, alkenyl, arylalkyl, aralkenyl, or an aromatic group, and R' is unsubstituted or substituted with one or more hydroxy groups and/or one or more carboxyl groups, an oxo group or an amino group,

or a geometric isomer or a stereoisomer thereof, provided that R is methyl only in a single R-O- substituent in a compound of formula (I) where L is a skeleton of the lignan arctigenin.

- 2. The complex according to claim 1 wherein the cyclodextrin is  $\alpha$ -cyclodextrin,  $\beta$ -cyclodextrin,  $\gamma$ -cyclodextrin or a derivative thereof.
- 3. The complex according to claim 2 wherein the cyclodextrin is natural5 cyclodextrin.
  - 4. The complex according to claim 2 wherein the cyclodextrin is  $\gamma$ -cyclodextrin or hydroxypropyl- $\beta$ -cyclodextrin.
- 5. The complex according to any of the claims 1-4, wherein L in compound (I) is a lignan skeleton of any of the lignans hydroxymatairesinol, matairesinol, lariciresinol, secoisolariciresinol, isolariciresinol, oxomatairesinol, alpha-conidendrin, pinoresinol, liovil, picearesinol, arctigenin, syringaresinol or nortrachelogenin.

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- 6. The complex according to any of the claims 1-4, wherein L in compound (II) is a lignan skeleton of enterolactone or enterodiol.
- 7. The complex according to any of the claims 1-4, wherein both of the groups R-O- in the compound (I) or (II) are hydroxy groups.
  - 8. The complex according to any of the claims 1-4, wherein both of the groups R-O- in the compound (I) or (II) are ester groups, where R is R'-CO or R'-SO<sub>2</sub> and R' is as defined in claim 1.

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9. A food product comprising a complex according to any of the claims 1-8 and a foodstuff.

- 10. The food product according to claim 9, which is a functional food, a nutritional supplement, a nutrient, a pharmafood, a nutraceutical, a clinical nutrition product, a health food or a designer food.
- 5 11. A dietary supplement composition comprising a complex according to any of the claims 1-8 and an acceptable carrier.
  - 12. A pharmaceutical composition comprising a complex according to any of the claims 1-8 and an acceptable carrier.

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